

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Cook 3-12B4					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT					
4. TYPE OF WELL Oil Well <input checked="" type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038					
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Raymond D. Cook						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-454-3708					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 65 Box 17, ,						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		2379 FNL 1560 FWL		SEnw	12	2.0 S		4.0 W		U	
Top of Uppermost Producing Zone		2379 FNL 1560 FWL		SEnw	12	2.0 S		4.0 W		U	
At Total Depth		2379 FNL 1560 FWL		SEnw	12	2.0 S		4.0 W		U	
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1560			23. NUMBER OF ACRES IN DRILLING UNIT 640					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completion) 900			26. PROPOSED DEPTH MD: 14100 TVD: 14100					
27. ELEVATION - GROUND LEVEL 6148			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City/Water Right 43-8362					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight	
Cond	20	13.375	0 - 1000	54.5	J-55 LT&C	8.8	Class G	1241	1.15	15.8	
Surf	12.25	9.625	0 - 5200	40.0	N-80 LT&C	9.5	35/65 Poz	757	3.16	11.0	
							Premium Lite High Strength	191	1.33	14.2	
I1	8.75	7	0 - 10850	29.0	P-110 LT&C	11.0	Premium Lite High Strength	367	2.31	12.0	
							Premium Lite High Strength	91	1.91	12.5	
L1	6.125	4.5	10650 - 14100	13.5	P-110 LT&C	14.0	50/50 Poz	254	1.61	15.4	
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Maria S. Gomez			TITLE Principal Regulatory Analyst			PHONE 713 997-5038					
SIGNATURE			DATE 08/02/2012			EMAIL maria.gomez@epenergy.com					
API NUMBER ASSIGNED 43013516260000						APPROVAL					

Received: November 07, 2012

**Cook 3-12B4
Sec. 12, T2S, R4W
DUCHESNE COUNTY, UT**

EP Energy E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	5,209'
Green River (GRTN1)	6,729'
Mahogany Bench	7,859'
L. Green River	9,249'
Wasatch	10,749'
T.D. (Permit)	14,100'

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil	Green River (GRRV)	5,209'
	Green River (GRTN1)	6,729'
	Mahogany Bench	7,859'
	L. Green River	9,249'
	Wasatch	10,749'

3. Pressure Control Equipment: (Schematic Attached)

A 4.5" by 20.0" rotating head on structural pipe from surface to 1,000'. A 4.5" by 13 3/8" Smith Rotating Head and 5M Annular from 1,000' to 5,200' on Conductor. A 5M BOP stack, 5M Annular, and 5M kill lines and choke manifold used from 5,200' to 10,850'. A 10M BOE w/rotating head, 5M annular, blind rams & mud cross from 10,850' to TD. The BOPE and related equipment will meet the requirements of the 5M and 10M system.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi Annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test and 4,000 psi high test. The 10M BOP will be installed

Received: August 02, 2012

with 3 ½" pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 406 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason monitoring systems with gas monitor 1,000' – TD.
- B) Mud logger with gas monitor – 5,200' to TD
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and de-silter, and centrifuge

4. Proposed Casing & Cementing Program

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations will be based on: 25% excess over gauge hole in the liner section, 10% excess over gauge hole in the intermediate section, and 75% excess on the lead and 50% excess on the tail over gauge hole volume for the surface hole. Actual volumes pumped will be a minimum of the volumes stated above, however, actual hole size will be based on caliper logs in the liner and intermediate sections. Gauge hole will be used for the surface section.

5. Drilling Fluids Program:

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.5
Intermediate	WBM	9.5 – 11.0
Production	WBM	11.0 – 14.0

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 5,200' - TD.

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from base of surface casing to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 14,100' TD equals approximately 10,265 psi. This is calculated based on a 0.728 psi/foot gradient (14.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 7,163 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

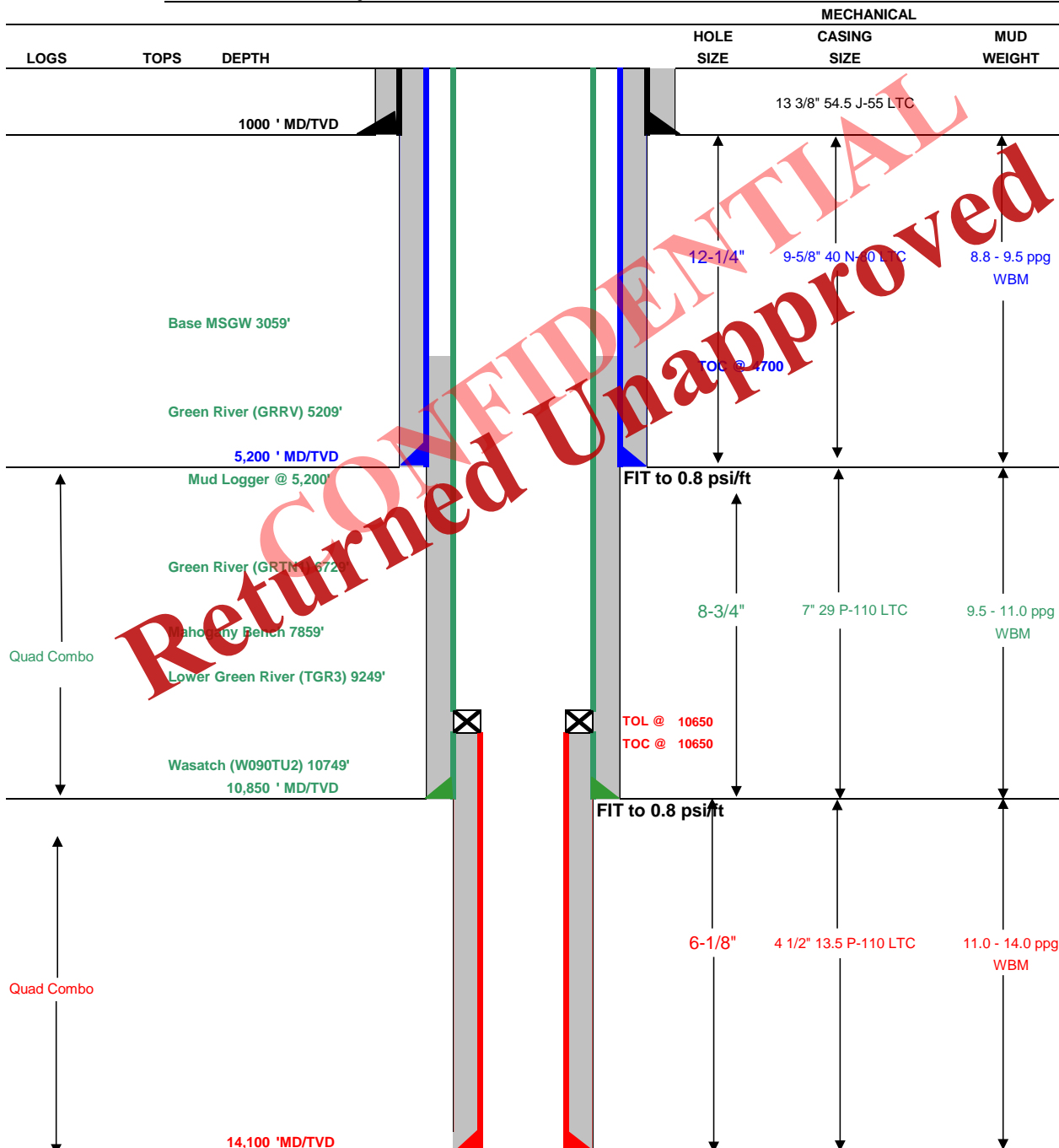
Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 10,850' = 8,680 psi.

BOPE and casing design will be based on the lesser of the two MASPs which is 7,163 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**

Drilling Schematic

Company Name: EP Energy	Date: July 17, 2012
Well Name: Cook 3-12B4	TD: 14,100
Field, County, State: Altamont-Bluebell Duchesne, UT	AFE #:
Surface Location: Sec 12 T2S R4W 2379' FNL 1560' FWL	BHL: Straight Hole
Objective Zone(s): Lower Green River, Wasatch	Elevation: 6148
Rig: Precision 406	Spud (est.):
BOPE Info: 5.0 x 13 3/8 rotating head from 1,000' to 5,200' 11 5M BOP stack and 5M kill lines and choke manifold used from 5,200' to 10,850' 11 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 10,850' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	1000	54.5	J-55	LTC	2,730	1,140	1,399
SURFACE	9-5/8"	0	5200	40.00	N-80	LTC	3,090	5,750	820
INTERMEDIATE	7"	0	10850	29.00	P-110	LTC	11,220	8,530	797
PRODUCTION LINER	4 1/2"	10650	14100	13.50	P-110	LTC	12,410	10,680	338

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		1000	Class G + 3% CACL2	1241	100%	15.8 ppg	1.15
SURFACE	Lead	4,700	Boral Craig POZ 35%, Mountain G 65%, Bentonite Wyoming 8%, Silicate 5 lbm/sk, Pol-E Flake 0.125 lbm/sk, Kwik Seal 0.25 lb/sk	757	75%	11.0 ppg	3.16
	Tail	500	Halco-light premium+3 lb/sk Silicate+0.3% Econolite+1% Salt+0.25 lbm/sk Kol-Seal+0.24 lb/sk Kwik Seal+ HR-5	191	50%	14.2 ppg	3.33
INTERMEDIATE	Lead	5,150	Halco-Light-Premium+4% Bentonite+0.4% Econolite+0.2% Halad322+3 lb/sk Silicalite Compacted+0.8% HR-5+ 0.125 lb/sk Poly-E-Flake	367	10%	13.0 ppg	2.31
	Tail	1,000	Halco-Light-Premium+0.2% Econolite+0.3% Versaset+0.2% Halad322+0.8% HF-5+ 0.3% SuperCBL+ 0.125 lb/sk Poly-E-Flake	241	10%	12.5 ppg	1.91
PRODUCTION LINER		3,450	Halco- 50/50 Poz Premium Cement+20% SSA-1+0.6% Super CBL+ 0.3% Halad-344+0.3% Halad-413+ 0.2% SCR-100+ 0.125 lb/sk Poly-E-Flake + 3 lb/sk Silicat	254	25%	15.40	1.61

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 8,000'.
LINER	Float shoe, 1 joint, float collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Joe Cawthorn 713-997-5929

MANAGER: Tommy Gaydos

EL PASO E&P COMPANY, L.P.

COOK 3-12B4

SECTION 12, T2S, R4W, U.S.B.&M.

PROCEED EAST THEN SOUTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH 15500 WEST STREET IN ALTAMONT, UTAH APPROXIMATELY 2.09 MILES TO AN INTERSECTION;

TURN SLIGHT RIGHT AND TRAVEL SOUTHERLY ON PAVED ROAD 15000 WEST 1.43 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN RIGHT AND FOLLOW ROAD FLAGS WESTERLY THEN NORTHWESTERLY 0.93 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 4.45 MILES

CONFIDENTIAL
Returned Unapproved

EL PASO E & P COMPANY, L.P.

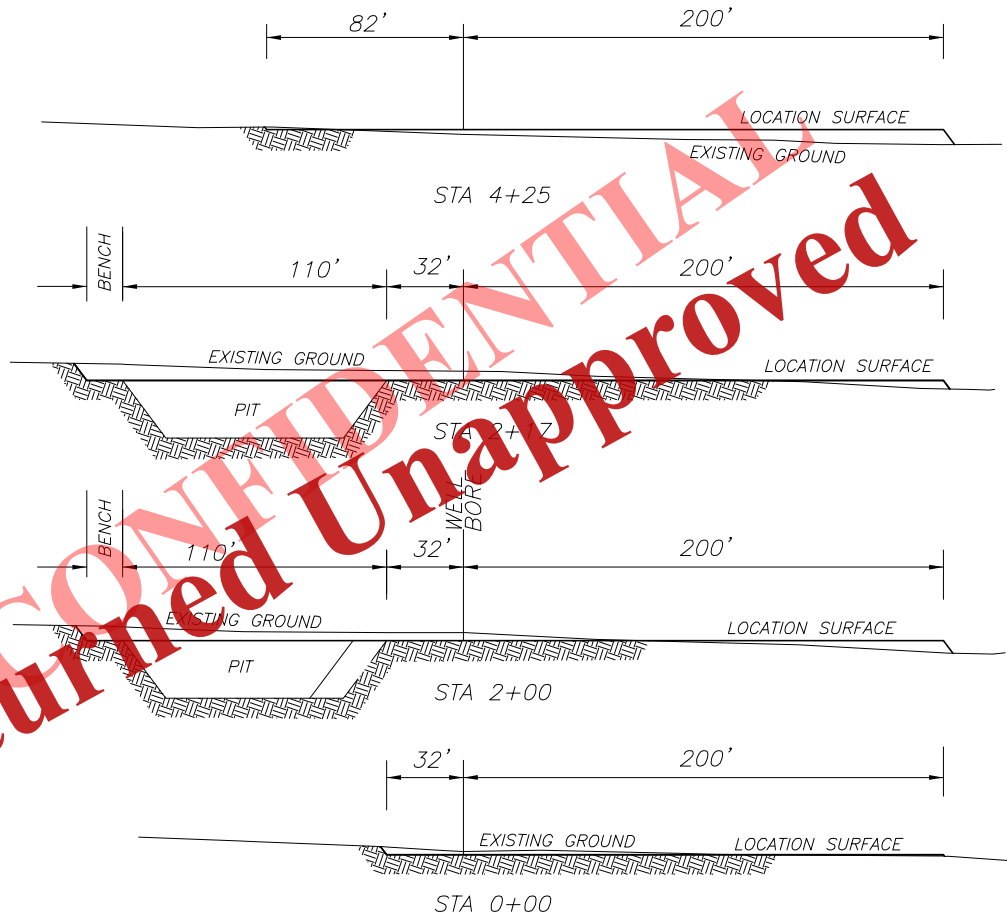
LOCATION LAYOUT FOR COOK 3-12B4

SECTION 12, T2S, R4W, U.S.B.&M.
2379 FNL, 1560' FWL

FIGURE #2

1"=40'
X-SECTION
SCALE
1"=80'

NOTE: ALL CUT/FILL
SLOPES ARE 1½:1
UNLESS OTHERWISE
NOTED



APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 10,780 CU. YDS.

PIT CUT = 4570 CU. YDS.

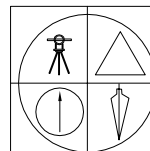
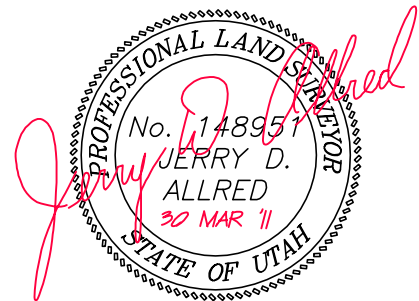
TOPSOIL STRIPPING: (6") = 2550 CU. YDS.

REMAINING LOCATION CUT = 3660 CU. YDS.

TOTAL FILL = 3660 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=1334 CU. YDS.



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

25 MAR 2011

01-128-234

Received: August 02, 2012

EL PASO E & P COMPANY, L.P.

LOCATION LAYOUT FOR

COOK 3-12B4

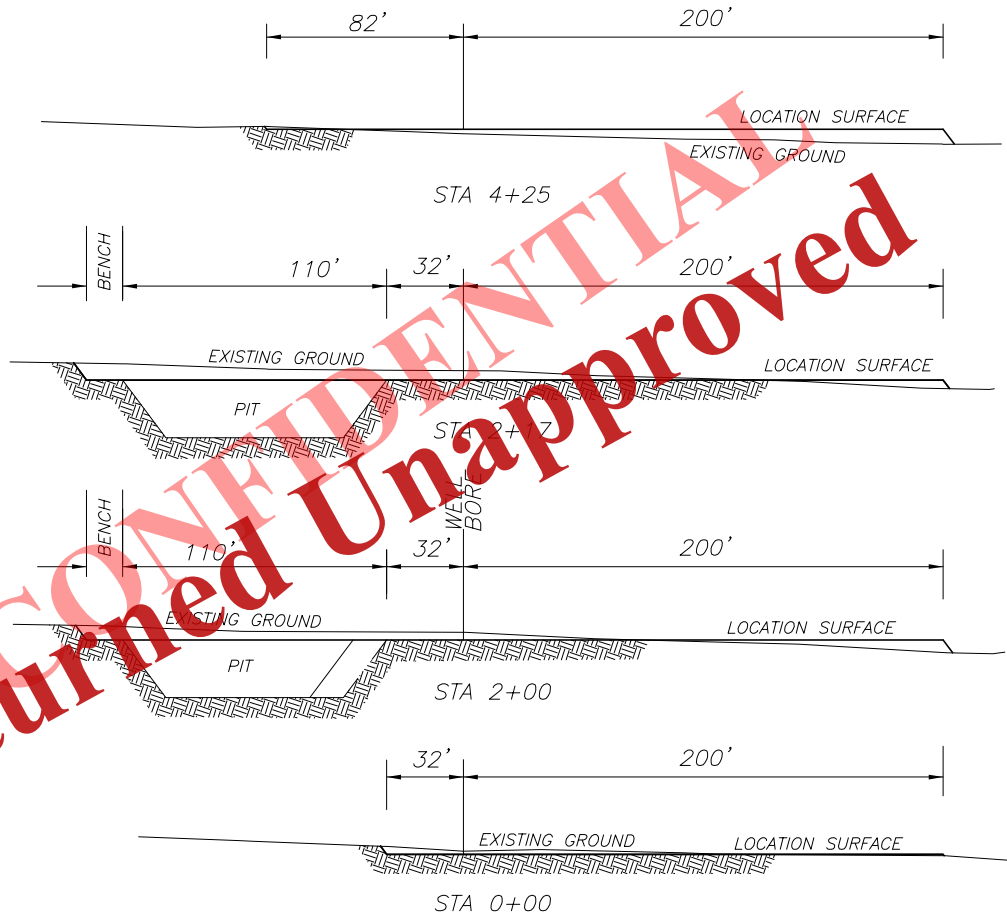
SECTION 12, T2S, R4W, U.S.B.&M.

2379 FNL, 1560' FWL

FIGURE #2

1"=40'
X-SECTION
SCALE
1"=80'

NOTE: ALL CUT/FILL
SLOPES ARE 1½:1
UNLESS OTHERWISE
NOTED



APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 10,780 CU. YDS.

PIT CUT = 4570 CU. YDS.

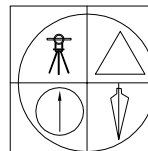
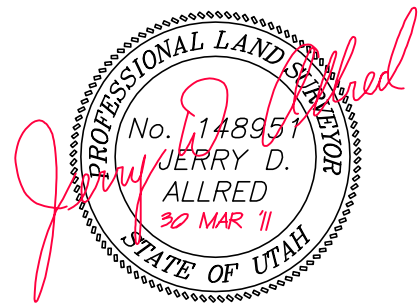
TOPSOIL STRIPPING: (6") = 2550 CU. YDS.

REMAINING LOCATION CUT = 3660 CU. YDS

TOTAL FILL = 3660 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=1334 CU. YDS.



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

25 MAR 2011

01-128-234

Received: August 02, 2012

LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE
CORRIDOR RIGHT-OF-WAY SURVEY FOR
ELPASO E&P COMPANY, L.P.
SECTION 12, T2S, R4W, U.S.B.&M.
DUCHESSNE COUNTY, UTAH

COOK 3-12B4

USE AREA BOUNDARY DESCRIPTION

Commencing at the West Quarter Corner of Section 12, Township 2 South, Range 4 West of the Uintah Special Base and Meridian;
Thence North 68°58'27" East 1430.75 feet to the TRUE POINT OF BEGINNING;
Thence South 89°30'24" East 475.00 feet;
Thence South 00°29'36" West 475.00 feet;
Thence North 89°30'24" West 475.00 feet;
Thence North 00°29'36" East 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18 acres.

ACCESS ROAD, POWER LINE, AND PIPELINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, power line, and pipeline corridor right-of-way over portions of Section 12 Township 2 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of said right-of-way being further described as follows:
Commencing at the West Quarter Corner of Section 7, Township 2 South, Range 3 West of the Uintah Special Base and Meridian;
Thence South 84°57'41" West 3470.15 feet to the TRUE POINT OF BEGINNING;
Thence South 42°44'31" East 131.06 feet; Thence South 47°44'08" East 182.44 feet;
Thence South 42°44'31" East 131.06 feet; Thence South 48°26'33" East 710.11 feet;
Thence South 56°35'33" East 107.70 feet; Thence South 40°23'54" East 406.63 feet;
Thence South 44°50'44" East 658.20 feet; Thence South 21°33'26" East 513.62 feet;
Thence South 28°13'54" East 334.45 feet; Thence South 18°00'11" East 177.99 feet; Thence South 19°36'01" East 197.22 feet;
Thence South 44°54'35" East 71.30 feet; Thence South 89°47'22" East 1372.90 feet to the west line of an existing road. Said right-of-way being 4863.62 feet in length with the side lines being shortened or elongated to intersect said use area boundary and existing road lines.

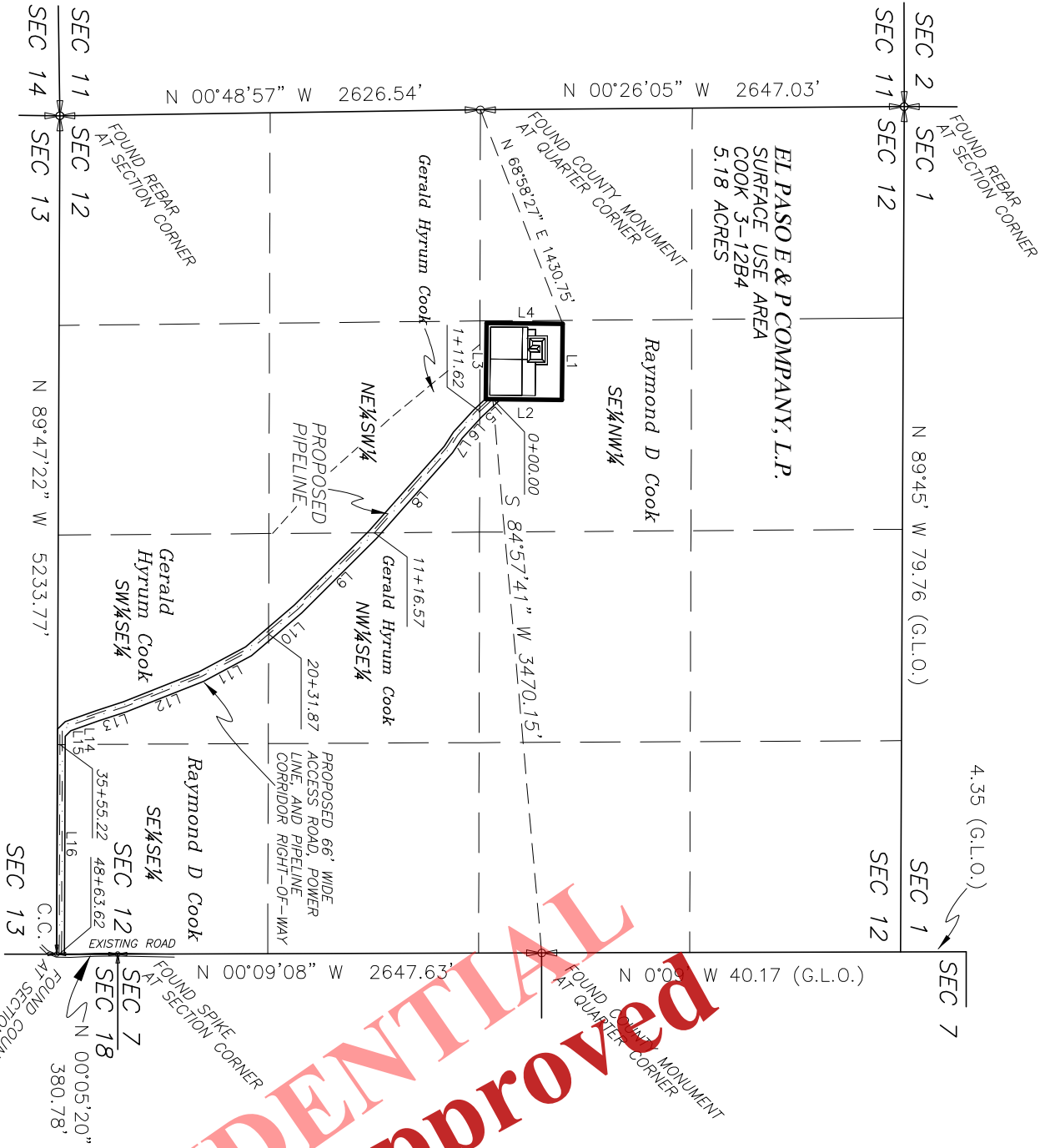
SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately presents said survey to the best of my knowledge.

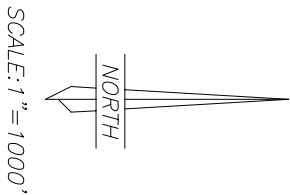
JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)

No. 148951
JERRY D. ALLRED
STATE OF UTAH
MAR 11 30 MAR 11

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT 40°21'33.56926"N AND LONG. 110°16'31.53164"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER



LINE	BEARING	DISTANCE
L1	S89°30'24"E	475.00
L2	S00°29'36"W	475.00
L3	N89°30'24"W	475.00
L4	N00°29'36"E	475.00
L5	S42°44'31"E	131.06
L6	S47°44'08"E	182.44
L7	S56°35'33"E	107.70
L8	S48°26'33"E	710.11
L9	S44°50'44"E	658.20
L10	S40°23'54"E	406.63
L11	S28°13'54"E	334.45
L12	S21°33'26"E	513.62
L13	S18°00'11"E	177.99
L14	S19°36'01"E	197.22
L15	S44°54'35"E	71.30
L16	S89°47'22"E	1372.90



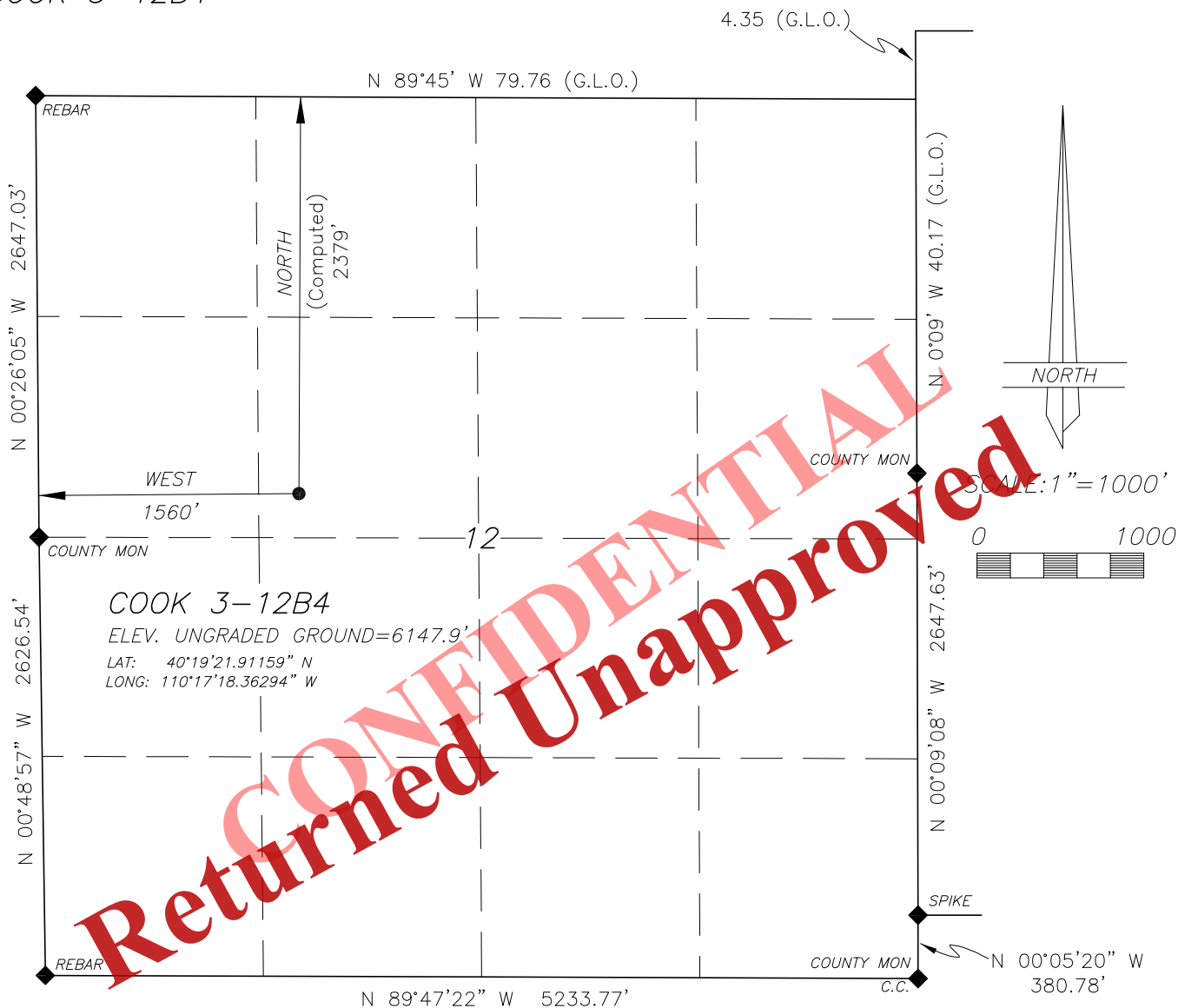
SCALE: 1"=1000'

EL PASO E & P COMPANY, L.P.

WELL LOCATION

COOK 3-12B4

LOCATED IN THE SE¼ OF THE NW¼ OF
SECTION 12, T2S, R4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH



LEGEND AND NOTES

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

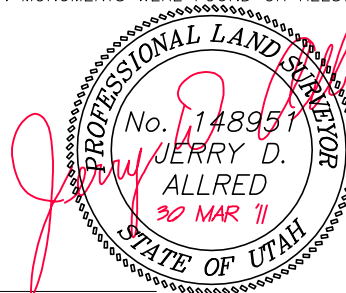
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°21'33.56926\"N AND LONG. 110°16'31.53164\"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

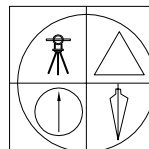
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)

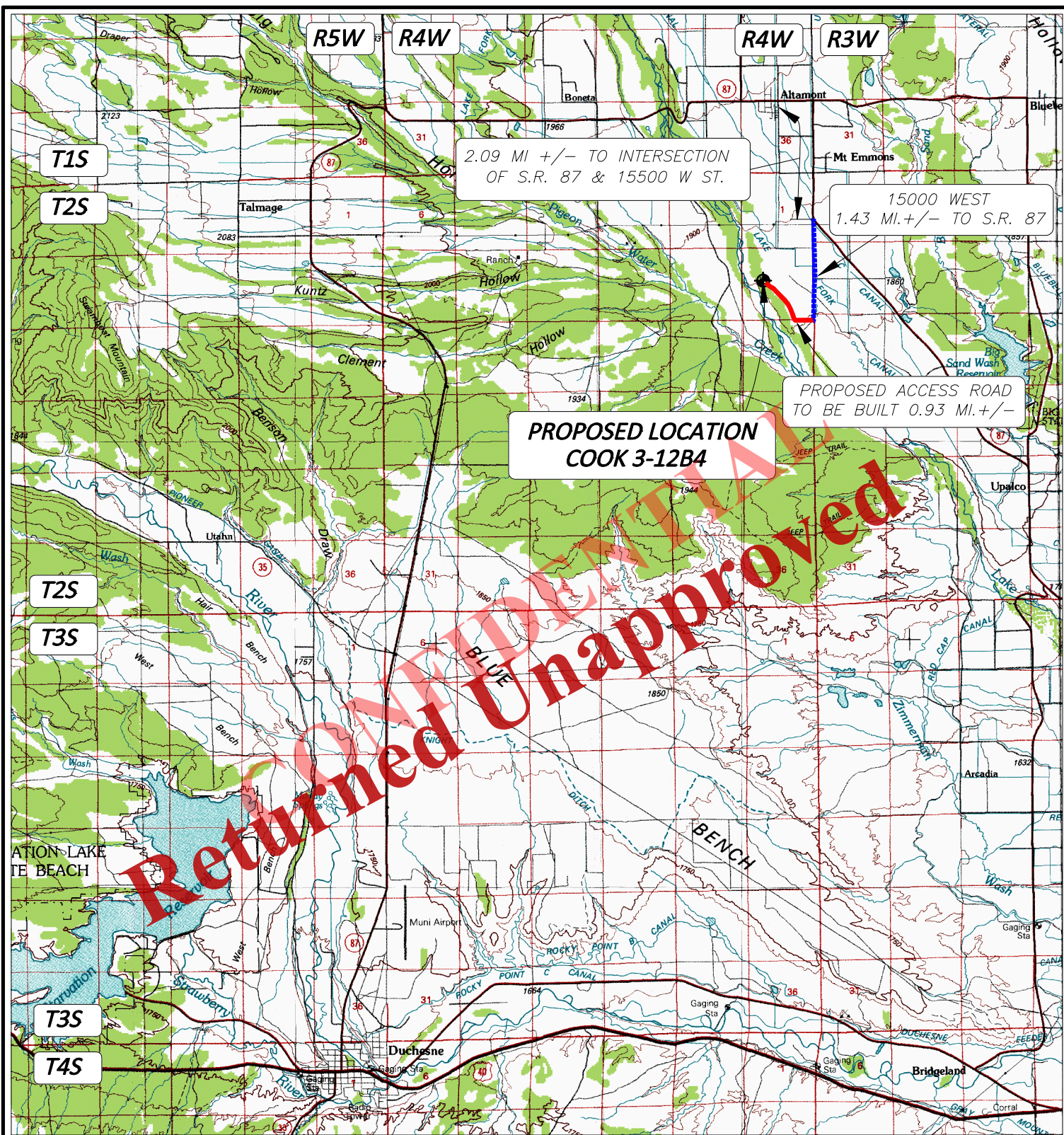


JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

25 MAR 2011 01-128-234

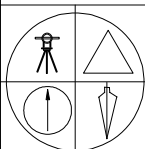
Received: August 02, 2012



LEGEND:

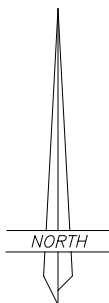
◆ PROPOSED WELL LOCATION

01-128-234



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHEсне, UTAH 84021
(435) 738-5352



EL PASO E & P COMPANY, L.P.

COOK 3-12B4

SECTION 12, T2S, R4W, U.S.B.&M.

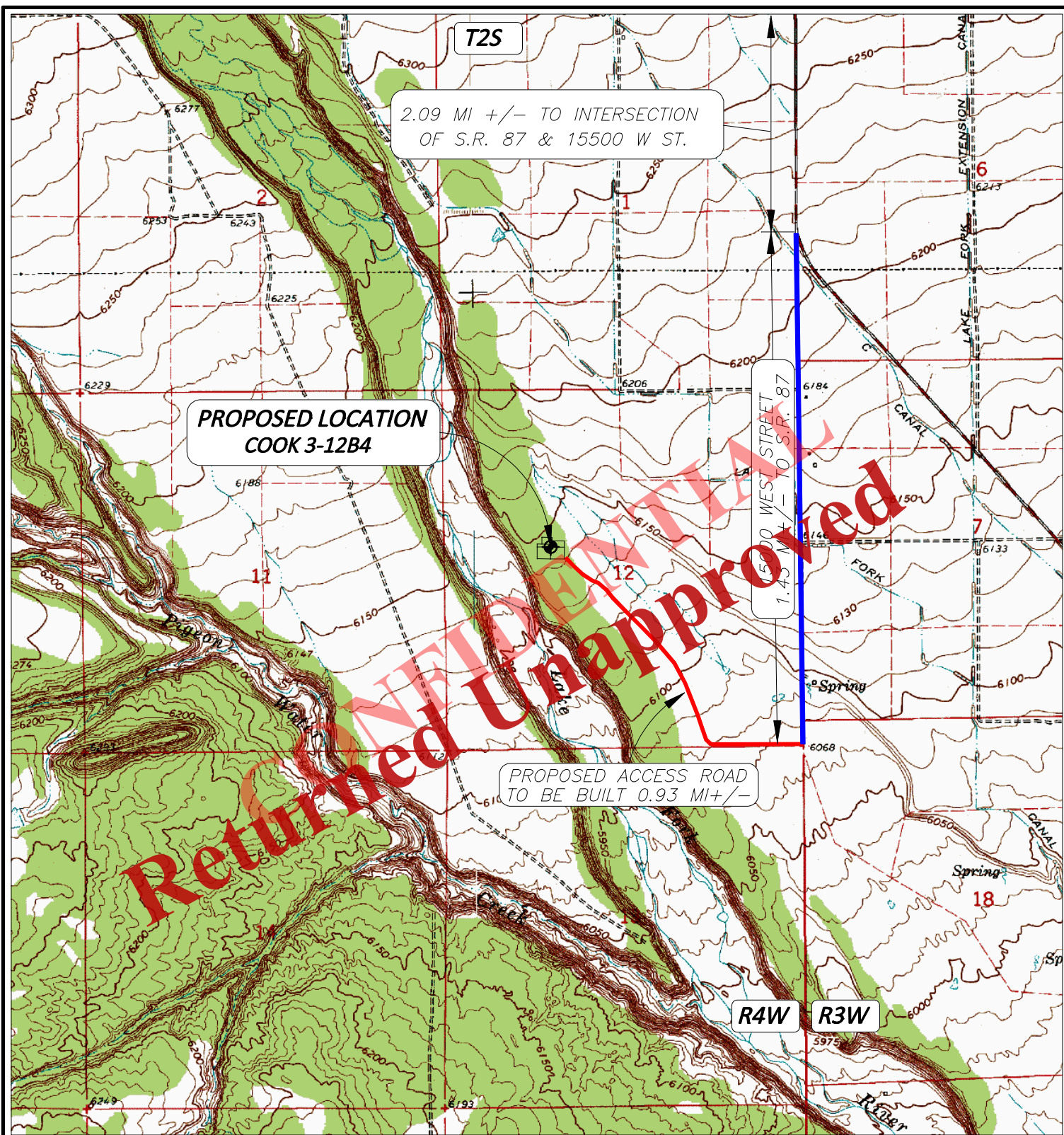
2379' FNL 1560' FWL

TOPOGRAPHIC MAP "A"

SCALE: 1"=10,000'

25 MAR 2011

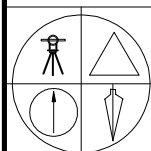
Received: August 02, 2012



LEGEND:

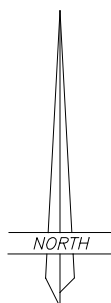
- PROPOSED WELL LOCATION
- PROPOSED ACCESS ROAD
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD

01-128-234



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

121 NORTH CENTER ST.--P.O. BOX 975
DUCHESTER, UTAH 84021
(435) 738-5352



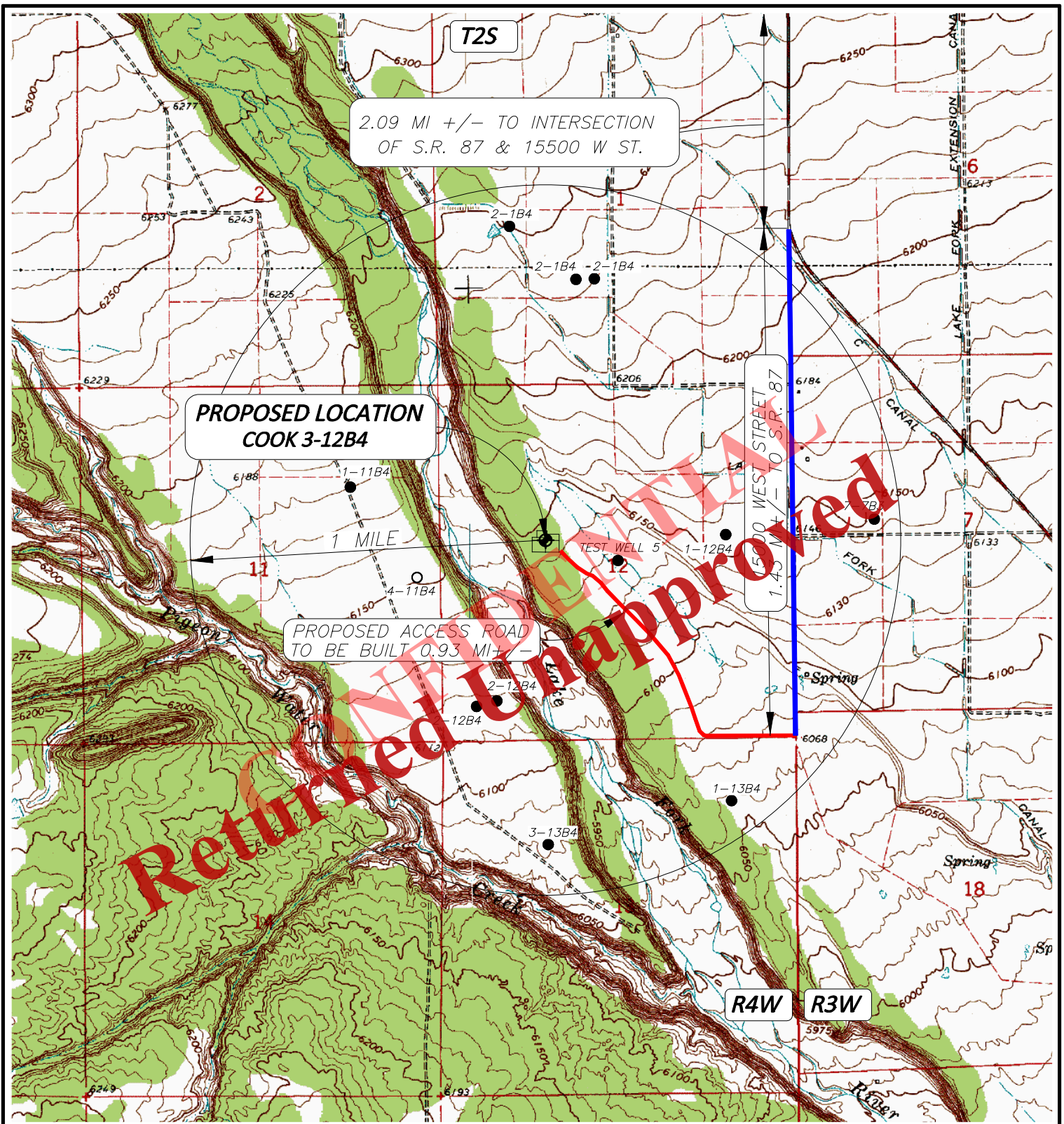
EL PASO E & P COMPANY, L.P.

COOK 3-12B4
SECTION 12, T2S, R4W, U.S.B.&M.
2379' FNL 1560 FWL

TOPOGRAPHIC MAP "B"

SCALE: 1"=2000'
25 MAR 11

Received: August 02, 2012



LEGEND:

PROPOSED WELL LOCATION

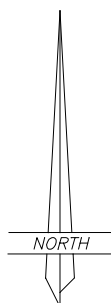
2-25C6

OTHER WELLS AS LOCATED FROM
SUPPLIED MAP

01-128-234

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

121 NORTH CENTER ST.--P.O. BOX 975
DUCHESTER, UTAH 84021
(435) 738-5352



EL PASO E & P COMPANY, L.P.

COOK 3-12B4
SECTION 12, T2S, R4W, U.S.B.&M.
2379' FNL 1560 FWL

TOPOGRAPHIC MAP "C"

SCALE: 1"=2000'
25 MAR 11

Received: August 02, 2012

AFFIDAVIT OF FACTS

STATE OF UTAH §

COUNTY OF DUCHESNE §

**Re: Damage Settlement & Release (DSR) and Right-of-Way (ROW)
Wellsite, Road and Pipeline
El Paso E&P Company, L.P., Operator
Cook 3-12B4 Oil & Gas Well
2,379' FNL & 1,560' FWL
T2S-R4W Sec. 12: SE/4NW/4
Duchesne County, Utah**

WHEREAS, the undersigned, Byron Moos (affiant), whose mailing address is P.O. Box 3, Duchesne, UT 84021, being first duly sworn on oath, depose and say:

1. I am over the age of 21 and am an Independent Oil and Gas Landman, under contract with Transcontinent Oil Company acting as agent for El Paso E&P Company, L.P., whose address is 1001 Louisiana Street, Houston, Texas 77002 ("El Paso").
2. El Paso is the Operator and owner of the mineral estate under oil and gas leases of the proposed Cook 3-12B4 oil and gas well (the "Well"), to be located on the SE/4NW/4 of Section 12, Township 2 South, Range 4 West, USM, (the "Drillsite Location") at the surveyed location of 2,379 feet from the North line and 1,560 feet from the West line of the said Section 12, located and being on a part of a tract of land known as Duchesne County Tax Roll Parcel #00-0006-5346, Serial #2109, Duchesne County, Utah ("Property").
3. While the minerals under the Property are owned by a number of individual fee mineral owners, the surface estate is owned by:

**Raymond D. Cook, J/T
HC 65 Box 17, Altamont, UT 84001
Phone: (435) 454-3708 Home, (435) 401-5514 Cell**

**Lane Lonny Cook, J/T
HC 65 Box 29, Altamont, UT 84001
Phone: (435) 454-4567 Home, (435) 823-4823 Cell**

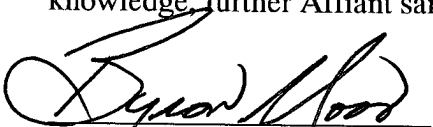
**Stacey L. Cook, J/T
HC 69 Box 103, Randlett, UT 84063
Phone: (435) 545-2961 Home**

**Stan L. Cook, J/T
HC 65 Box 29, Altamont, UT 84001
Phone: (435) 733-0053 Cell**

4. On March 8, 2011 Byron Moos (Landman on contract with El Paso E&P Company, L.P.) spoke to Mr. Raymond Cook via telephone and informed him of El Paso's intent to place a well on the above described tract of land. After describing the estimated position of the proposed well site to Mr. Cook, Mr. Moos stated that he would mail the permission to survey form to Mr. Cook wherein El Paso was requesting permission for El Paso's surveyor to enter Mr. Cook's property to complete a survey of the proposed well site. Mr. Cook was asked to sign the permission to survey form and return it to Mr. Moos. The permission to survey form was mailed later that same day.
5. On March 9, 2011 Byron Moos received a telephone call from Mr. Raymond Cook. Mr. Cook stated that he had received the permission to survey form and that he was concerned about the prospective placement of the proposed well site. Mr. Moos told Mr. Cook that he would ask El Paso's surveyor to contact him to discuss his concerns.

6. On March 14, 2011 Byron Moos received back the survey permission form signed by Mr. Raymond Cook.
7. On March 25, 2011 the survey report of the proposed Cook 3-12B4 wellsite and access right-of-way was completed by Jerry D. Allred & Associates, Professional Land Surveyor, under contract to El Paso E&P Company, L.P.
8. On April 26, 2011 a meeting was held in the home of Raymond D. Cook. In attendance were Mr. Raymond D. Cook, Mr. Stan L. Cook, Cameron Moos (Landman for Land Professionals, Inc. on contract with El Paso E&P Company, L.P.) and Byron Moos. Mr. Moos gave Mr. Raymond D. Cook and Mr. Stan L. Cook the documents (originals and copies) for this well site, as well as a letter stating El Paso's offer of compensation for the surface use agreement and access right-of-way for this well site. After reviewing the documents and El Paso's offer of compensation, Mr. Raymond D. Cook stated that El Paso's offer of compensation for the surface use agreement was not enough. He also said that he wanted annual payments for the access right-of-way to the well site. He stated that the access right-of-way would reduce the amount of pasture acreage by an amount equivalent to what it takes to feed three cows annually. He felt that he should be compensated for that loss of acreage every year that the access right-of-way is in existence on his property. Mr. Raymond D. Cook also stated that he wanted an eight (8) to ten (10) inch clay base built under the well site as it is being constructed.
Mr. Stan L. Cook stated that the oiled county road ends about 100 yards before reaching his property and that it is gravel from there on going past his house. That road will be used by the vehicles going to and from the well site and he wants the road paved to keep the dust down. He also wants the speed limit of 35mph on that road enforced as he feels that the vehicles going to and from the well site will exceed the posted speed limit therefore posing a danger to his family; especially his children who may inadvertently wander onto the road.
9. On May 5, 2011 Byron Moos spoke to Mr. Raymond D. Cook via telephone and told him that El Paso would not accept his counter offers of annual payments for the access right-of-way and the increased amount for the surface use agreement for this well site. Mr. Moos also told Mr. Cook that El Paso would not oil the road in front of Mr. Stan L. Cook's home as that was something best handled by the county road department. Mr. Cook's reply was that without the annual payments there would be no right-of-way. He also stated that he would not accept El Paso's offer for the surface use agreement. He also stated that the road in front of Mr. Stan L. Cook's home is not a county road.
10. On May 15, 2012 Byron Moos spoke to Mr. Raymond D. Cook via telephone. Mr. Moos increased El Paso's offer of compensation for the surface damages for the proposed well site but again informed Mr. Cook that El Paso would not accept his earlier counter offer of annual payments for the access road right-of-way to the proposed well site. Mr. Raymond Cook again stated that without the requested annual payments he would not agree to nor sign the documents for the proposed well.
11. On May 15, 2012 Byron Moos spoke to Mr. Stan L. Cook via telephone. Mr. Stan Cook stated that he still wanted the gravel road that runs in front of his home blacktopped to keep the dust caused by the many trucks traveling to and from the proposed well site to a minimum. He also said that he wanted a 35mph speed limit posted and enforced by El Paso along that road. When informed that El Paso would not accept his counter offer of paving the road in front of his home, Mr. Stan Cook stated that he would not agree to the proposed well site.
12. As of this date, May 16, 2012, El Paso E&P Company, L.P. has not been able to acquire a signed Surface Damage and Release Agreement from the aforementioned surface owners for the proposed Cook 3-12B4 well in Section 12, Township 2 South, Range 4 West, U.S.M.

NOW THEREFORE, the undersigned affiant Byron Moos, of lawful age, being first duly sworn, depose and say, that the above facts are true and correct to the best of his knowledge, further Affiant saith not. Signed this 16th day of May, 2012,

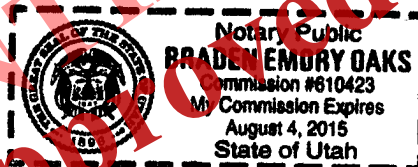

By: Byron Moos, Affiant

STATE OF UTAH §

COUNTY OF DUCHESNE §

On this 16th day of May 2012 A.D., personally appeared before me Byron Moos, Affiant signer of the above instrument, who duly acknowledged to me that he executed the same. WITNESS my hand and official seal.


Notary Public



CONFIDENTIAL
Returned Unapplied

EP ENERGY E&P COMPANY, L.P., L.P.

Related Surface Information

1. Current Surface Use:

- Livestock Grazing and Oil and Gas Production.

2. Proposed Surface Disturbance:

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .93 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. Location Of Existing Wells:

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. Location And Type Of Drilling Water Supply:

- Drilling water: Duchesne City Water/Water Right 43-8362

5. Existing/Proposed Facilities For Productive Well:

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .93 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. Construction Materials:

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. Methods For Handling Waste Disposal:

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of 1½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. Ancillary Facilities:

- There will be no ancillary facilities associated with this project.

9. Surface Reclamation Plans:

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 2. Landowner will be contacted for rehabilitation requirements.

10. Surface Ownership:

Raymond D. Cook, J/T
HC 65 Box 17
Altamont, UT 84001
435-454-3708

Lane Lanny Cook, J/T
HC 65 Box 29
Altamont, UT 84001
435-434-4567

Stacey L. Cook, J/T
HC 69 Box 103
Randlett, UT 84063
435-545-2961

Stan L. Cook, J/T
HC 65 Box 29
Altamont, UT 84001
435-733-0053

Other Information:

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

Construction and Reclamation:

EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

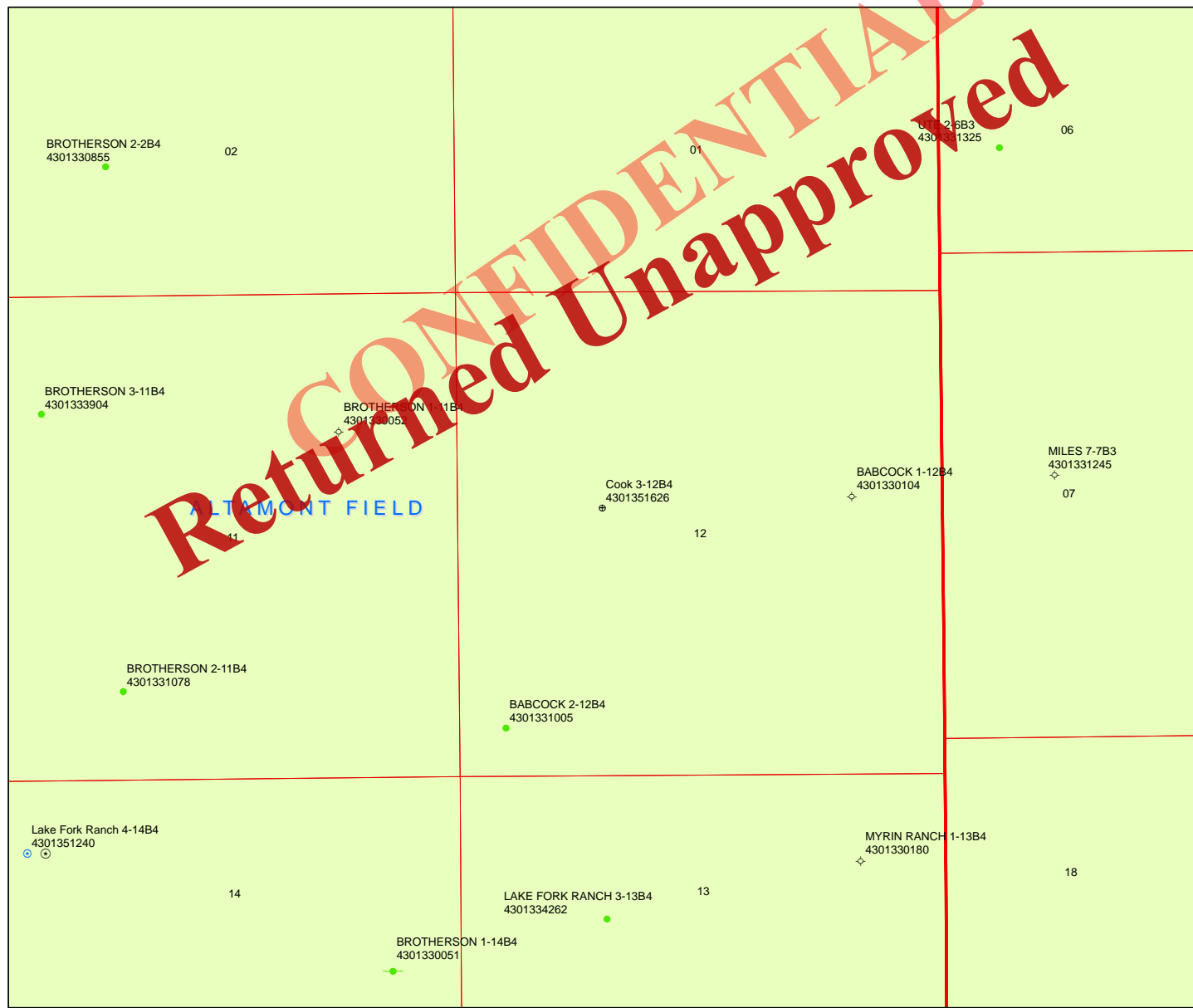
Regarding This APD

EP Energy E&P Company, L.P.
Maria S. Gomez
1001 Louisiana, Rm 2730D
Houston, Texas 77002
713-997-5038 – Office

Drilling

EP Energy E&P Company, L.P.
Joe Cawthorn – Drilling Engineer
1001 Louisiana, Rm 2523B
Houston, Texas 77002
713-997-5929 – office
832-465-2882 – Cell

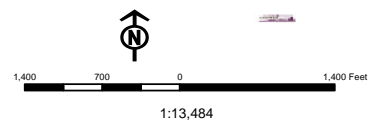
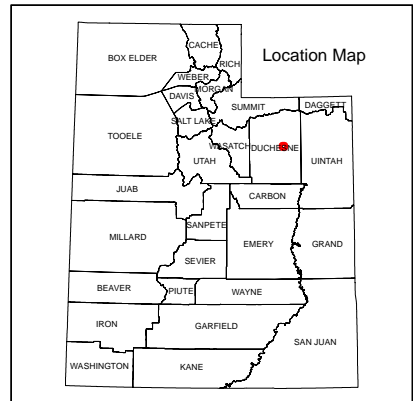
CONFIDENTIAL
Returned Unapproved



API Number: 4301351626
Well Name: Cook 3-12B4
Township T02.0S Range R04.0W Section 12
Meridian: UBM
Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared:
Map Produced by Diana Mason

- | Units | Wells Query |
|---------------|------------------------------------|
| STATUS | Status |
| ACTIVE | APD - Approved Permit |
| EXPLORATORY | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NF PP OIL | GS - Gas Storage |
| NF SECONDARY | LOC - New Location |
| PI OIL | OPS - Operation Suspended |
| PP GAS | PA - Plugged Abandoned |
| PP GEOTHERM | PGW - Producing Gas Well |
| PP OIL | POW - Producing Oil Well |
| SECONDARY | SGW - Shut-in Gas Well |
| TERMINATED | SOW - Shut-in Oil Well |
| Fields | TA - Temp. Abandoned |
| Unknown | TW - Test Well |
| ABANDONED | WDW - Water Disposal |
| ACTIVE | WW - Water Injection Well |
| COMBINED | WSW - Water Supply Well |
| INACTIVE | Bottom Hole Location - Oil/Gas/Dib |
| STORAGE | |
| TERMINATED | |



Well Name	EP ENERGY E&P COMPANY, L.P. Cook 3-12B4 43013516260000			
String	Cond	Surf	I1	L1
Casing Size(in)	13.375	9.625	7.000	4.500
Setting Depth (TVD)	1000	5200	10850	14100
Previous Shoe Setting Depth (TVD)	0	1000	5200	10850
Max Mud Weight (ppg)	8.8	9.5	11.0	14.0
BOPE Proposed (psi)	1000	1000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	12410
Operators Max Anticipated Pressure (psi)	10265			14.0

Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	458	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	338	YES <input type="checkbox"/> rotating head, WBM
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	238	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	238	NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		1000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	2569	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1945	NO <input type="checkbox"/> rotating head, WBM
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1625	NO <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1645	NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		4025	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1000	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	6206	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4904	YES <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3819	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4963	YES <input type="checkbox"/> OK
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		5200	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	10265	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	8573	YES <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	7163	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	9550	YES <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		8687	psi
*Max Pressure Allowed @ Previous Casing Shoe=		10850	psi *Assumes 1psi/ft frac gradient

43013516260000 Cook 3-12B4

Casing Schematic

Surface

13-3/8"
MW 8.8

9-5/8"
MW 9.5
Frac 19.3

7"
MW 11.
Frac 19.3

4-1/2"
MW 14.

TOC @

0.
252.

Conductor
1000. MD

*St.p ✓

3100' ± BMSW

4495' tail

5209'

Surface

8200. MD

6729' Green River (GRTN1)

TOC @
6868.

to 4740' @ 2% w/o, tail 9800'

*Proposed to 4700'

*St.p ✓

7859' Mahogany Bench

9249' L. Green River

10173' tail

10749' Wasatch

Intermediate

10850. MD

TOC @
11303.

to TOL @ 5% w/o

*TOL

Production Liner
14100. MD

CONFIDENTIAL
Returned Unapproved

Well name: **43013516260000 Cook 3-12B4**
 Operator: **EP ENERGY E&P COMPANY, L.P.**
 String type: **Conductor**
 Location: **DUCHESNE COUNTY**
 Project ID:
43-013-51626

Design parameters:

Collapse

Mud weight: 8.800 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 88 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 252 ft

Burst

Max anticipated surface pressure: 337 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 457 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.
 Neutral point: 870 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1000	13.375	54.50	J-55	ST&C	1000	1000	12.49	12406
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	457	1130	2.472	457	2730	5.97	47.4	514	10.84 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: October 12, 2012
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes.
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Received: November 07, 2012

Well name: **43013516260000 Cook 3-12B4**
 Operator: **EP ENERGY E&P COMPANY, L.P.**
 String type: **Surface** Project ID: **43-013-51626**
 Location: **DUCHESNE COUNTY**

Design parameters:

Collapse

Mud weight: 9.500 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 147 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 3,813 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 4,957 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on buoyed weight
 Neutral point: 4,465 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 10,850 ft
 Next mud weight: 11.000 ppg
 Next setting BHP: 6,200 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 5,200 ft
 Injection pressure: 5,200 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5200	9.625	40.00	N-80	LT&C	5200	5200	8.75	66169
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2566	3090	1.204	4957	5750	1.16	178.6	737	4.13 J

Prepared Helen Sadik-Macdonald
 by: Div of Oil, Gas & Mining

Phone: 801-538-5357
 FAX: 801-359-3940

Date: October 12, 2012
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5200 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Received: November 07, 2012

Well name: **43013516260000 Cook 3-12B4**
 Operator: **EP ENERGY E&P COMPANY, L.P.**
 String type: **Intermediate** Project ID: **43-013-51626**
 Location: **DUCHESNE COUNTY**

Design parameters:

Collapse

Mud weight: 11.000 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 226 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 6,868 ft

Burst

Max anticipated surface pressure: 7,153 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 9,540 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.60 (B)

Tension is based on air weight
 Neutral point: 9,041 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 14,100 ft
 Next mud weight: 14.000 ppg
 Next setting BHP: 10,255 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 10,850 ft
 Injection pressure: 10,850 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10850	7	29.00	P-110	LT&C	10850	10850	6.059	122525
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	6200	8530	1.376	9540	11220	1.18	314.6	797	2.53 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: October 12, 2012
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10850 ft, a mud weight of 11 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Received: November 07, 2012

Well name: **43013516260000 Cook 3-12B4**
 Operator: **EP ENERGY E&P COMPANY, L.P.**
 String type: **Production Liner**
 Location: **DUCHESNE COUNTY**
 Project ID:
43-013-51626

Design parameters:

Collapse

Mud weight: 14.000 ppg
 Internal fluid density: 1.500 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 271 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 11,303 ft

Burst

Max anticipated surface pressure: 7,153 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 10,255 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.60 (B)

Liner top: 10,650 ft

Non-directional string.

Tension is based on air weight
 Neutral point: 13,377 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3500	4.5	13.30	P-110	LT&C	14100	14100	3.795	19612
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	9156	10680	1.166	10255	12410	1.21	47.3	338	7.15 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: October 12, 2012
 Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 14100 ft, a mud weight of 14 ppg. An Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Received: November 07, 2012



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 04, 2014

EP ENERGY E&P COMPANY, L.P.
1001 Louisiana
Houston, TX 77002

Re: Application for Permit to Drill - DUCHESNE County, Utah

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the Cook 3-12B4 well, API 43013516260000 that was submitted August 02, 2012 is being returned unapproved. If you plan on drilling this well in the future, you must first submit a new application.

Should you have any questions regarding this matter, please call me at (801) 538-5312.

Sincerely,

Diana Mason
Environmental Scientist

Enclosure

cc: Bureau of Land Management, Vernal, Utah



